BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at Jayamuni badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I No-19.1)								
	For RCC Drain	Cum							
	Jayamuni Layout								
	Lead off Drain		1	230.00	2.50	1.75	1006.25		
	Dead end drain		2	95.00	1.00	0.90	171.00		
	For RCC Culvert		2	6.00	1.60	0.90	17.28		
	Debris		1	30.00	1.20	0.20	7.16		
							1201.69	215.28	**258700.68**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification No. KBS 2.10.2 (P.No-7,I No-2.15)								
	For Drain	Cum							
	Jayamuni Layout								
	Lead off Drain		1	230.00	2.50	0.20	115.00		
							115.00	2574.74	**296095.10**
	Basic Rate Rs.=	2429.00							
	Add 6% A.W Rs. =	145.74							
	Total Rate Rs. =	**2574.74**							
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Jayamuni Layout								
	Lead off Drain		1	230.00	2.50	0.20	115.00		
	Dead end drain		2	95.00	1.00	0.15	28.50		
	For RCC Culvert		2	6.00	1.60	0.15	2.88		
	For Concrete Road								
	Jayamuni Layout								
	Lake Gate Road		1	50.00	6.00	0.15	45.00		
							191.38	5421.90	**1037643.22**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs =	306.90							
	Total Rate Rs. =	**5421.90**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	Jayamuni Layout								
	Lead off Drain		1	230.00	2.30	0.20	105.80		
	Dead end drain		2	95.00	0.90	0.15	25.65		
	side walls								
	Jayamuni Layout								
	Lead off Drain		2	230.00	0.23	1.80	190.44		
	Dead end drain		4	95.00	0.15	0.60	34.20		
							356.09		
	For RCC Culvert								
	Raft		2	6.00	1.50	0.20	3.60		
	side walls		4	6.00	0.20	0.60	2.88		
							6.48		
					Net Qty		**362.57**	7070.20	**2563442.41**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500 (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 80 kg / cum	Tonne		349.61	0.080	--	27.97		
	Considering steel For Culvert @ 100 kg / cum			6.48	0.100	--	0.65		
							28.62	73992.24	**2117421.13**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
6	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Jayamuni Layout								
	Lead off Drain		1	230.00	2.40	--	552.00		
	Dead end drain		2	95.00	0.75	--	142.50		
							694.50		
	Deduct old slabs		-1	130.00	0.75	--	-97.50		
							597.00	2337.00	**1395189.00**

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
7	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	2	6.00	1.50	--	**18.00**	5418.00	**97524.00**
8	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143)								
	For Concrete Road	Cum							
	Jayamuni Layout								
	Lake Gate Road		1	50.00	6.00	0.30	90.00		
							90.00	63.94	**5754.60**
	Basic Rate Rs.=	41.00							
	Add 6% A.W Rs. =	2.46							
	Sub Total =	43.46							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**63.94**							
9	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Jayamuni Layout								
	Lake Gate Road		1	50.00	6.00	0.150	45.00		
							45.00	5210.96	**234493.20**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
10	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Concrete Road	Sqm							
	Jayamuni Layout								
	Lake Gate Road		1	50.00	6.00		300.00		
							300.00	72.08	**21624.00**
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							Sub Total 1 Rs.		8027887.41
	Add GST @ 12%								963346.49
	Add KRIDL @ 4%								321115.50
	DPR & PMC Charges including GST								187000.00
							Sub Total 2 Rs.		9499349.40
	Miscellaneous & Rounding off								650.60
								Total Rs.	9500000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

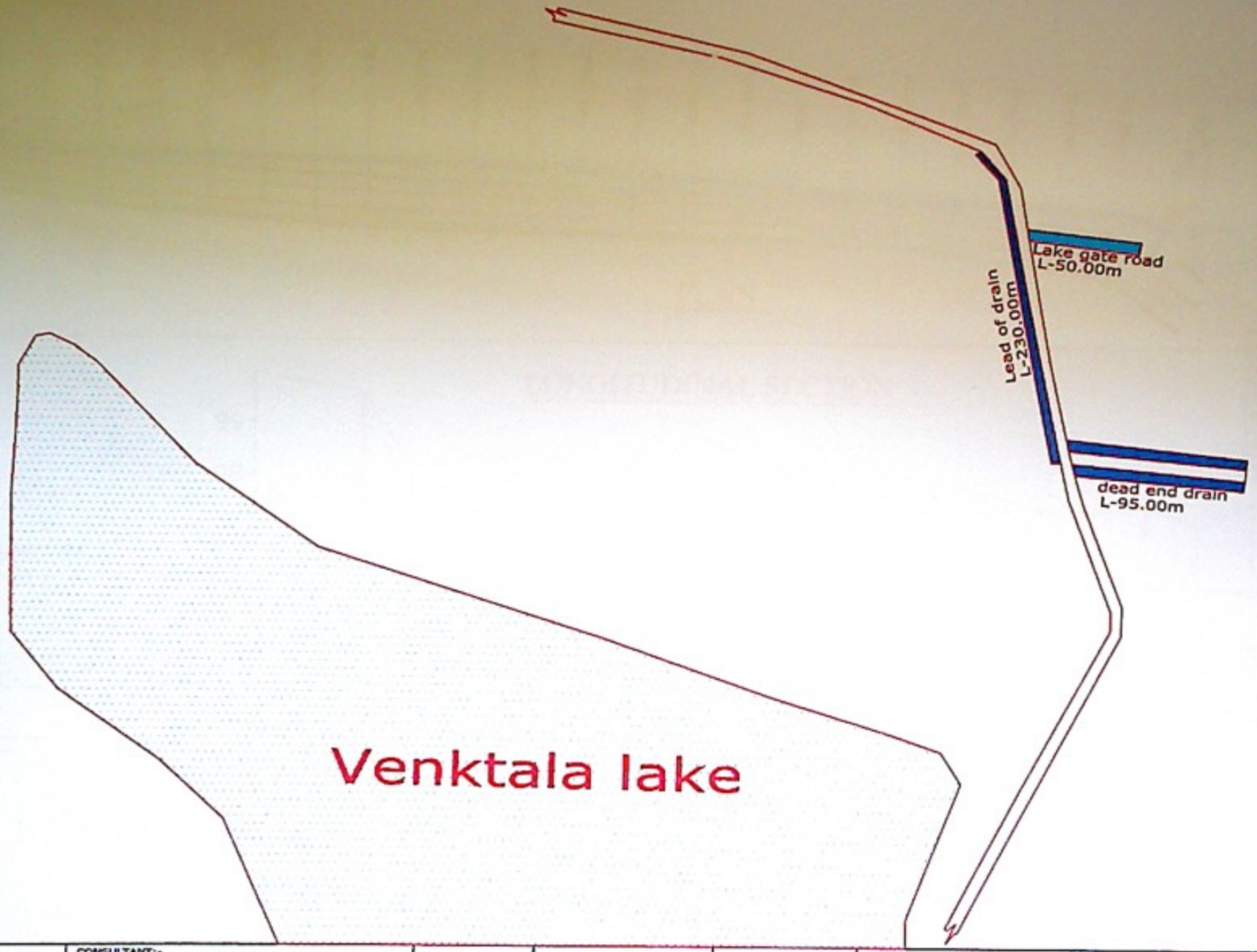
Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Ward 01	Yelahanka Sub Division	Yelahanka Division
BBMP	BBMP	BBMP

Administrative Sanction for Rs. ....95.00 Lakhs
Ninety five Lakhs only
is accorded under head P.3727
Chief minister Nava nagarothana
....granted 2018-19.
Registered as CE No. ... subject
to conditions Cir. dt. ...
No EE/YNK/AS/27/2019-20 28/10/2019

Executive Engineer

Technical Sanction
Accorded For Rs 95.00 lakhs only
Head of A/C P 3727
CER NO :....125..... Dt: 28.10.19

AEE (YNK) AEE (YNK)



CLIENT:
BRUHAT BANGALORE MAHANAGARA PALIKE

CONSULTANTS:
Silicon Consulting Engineers
#31317, 4th CROSS BEL
2nd STAGE BHARATH NAGAR
BANGALORE 560 091
E-mail: siliconcivilengineers@gmail.com

Asstnt's Engineer | Asstnt. Executive Engineer | Executive Engineer

Dwg Title:
Improvements To Roads and Drains at Jayamuni badavane and surrounding areas in Ward no.01 of Yelahanka sub division

Dwg no:

Scale: N.T.S
Date
Rev: R0